

Panasonic OmniVision **VHS**



Combination VCR

MODEL PV-M1324/PV-M1324W

Operating Instructions

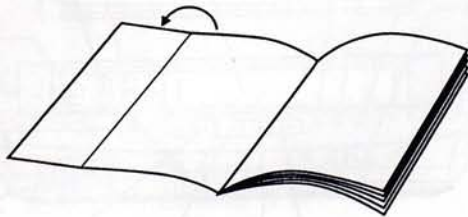
Before attempting to connect, operate or adjust this product, please read these instructions completely.
Spanish Quick Use Guide is included. Guía para rápida consulta en español está incluido.

Using this Manual

To get the most from your product, we recommend that you read the Operating Instructions thoroughly and in the order presented. To assist you in locating controls and indicators on the remote control and Combination VCR, we have provided a fold-out Control Reference Guide. Each control and indicator is listed by name as well as a reference number or letter. You will also find corresponding numbers and letters throughout the Operating Instructions.

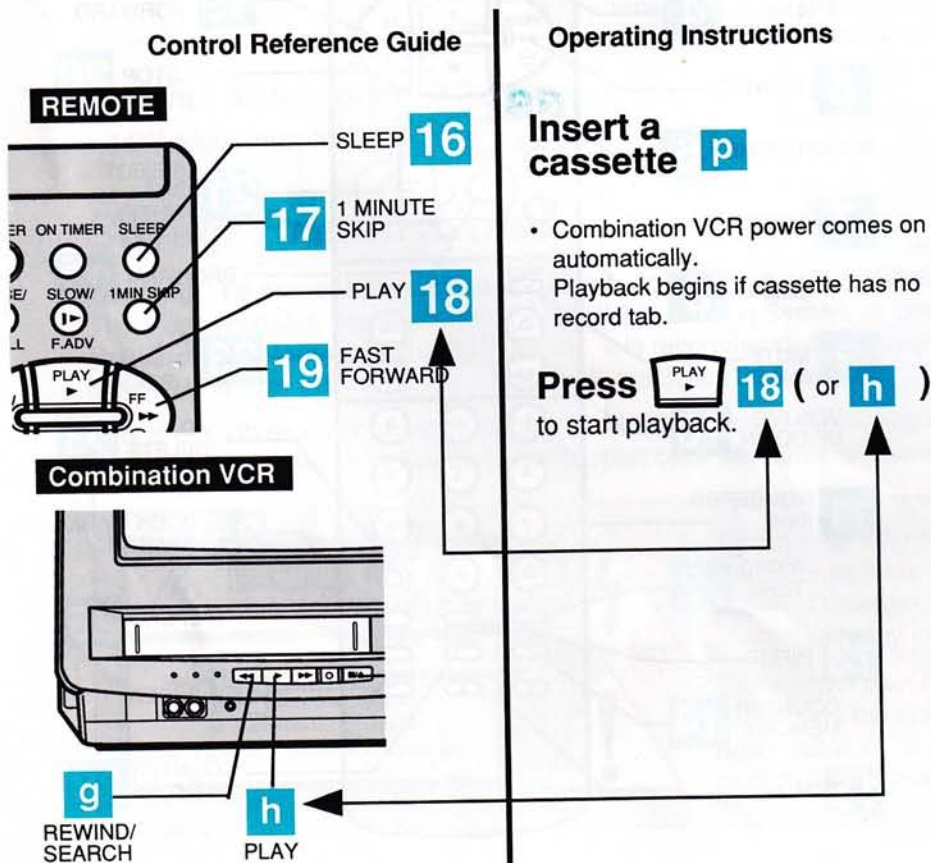
Keep this manual handy as a ready reference source.

- Fold out the Control Reference Guide.



- Read the Operating Instructions carefully.
- When an unfamiliar control or indicator is encountered, see the reference number or letter and then find the corresponding character on the Control Reference Guide.

Example:



Know

Purchase _____

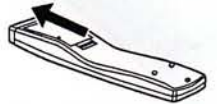
Bought From _____

Address _____

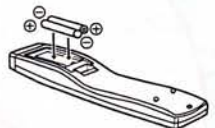
Phone No. _____

Batteries in the Remote Control

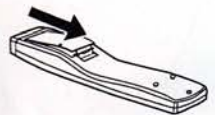
the direction of the lid lift off the lid.



no batteries as inside the Battery compartment.



the lid and snap it.



Placement caution

old and new batteries. (Also, never mix alkaline and manganese batteries.)

Protection to rain or moisture.

Compatible with existing VHS equipment. Do not use cassette tapes that have been tested and found to be defective.

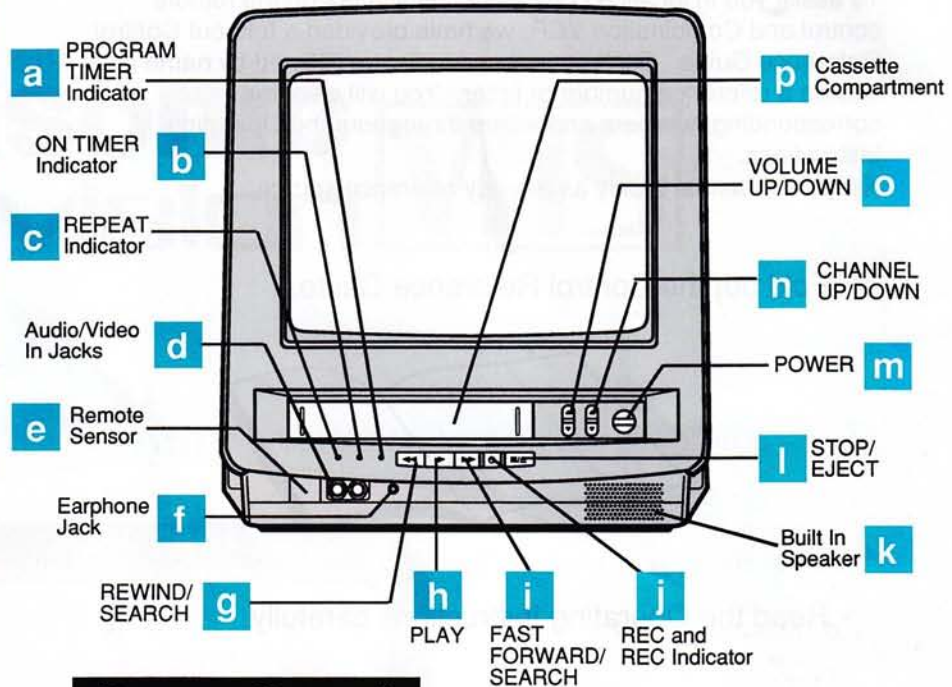
In accordance with §15.119 of the FCC rules, this device is not for use in closed captioning.

Be aware that uninsulated voltage within the unit is of sufficient magnitude to cause electric shock. It is dangerous to make any kind of repair to any part of this unit.

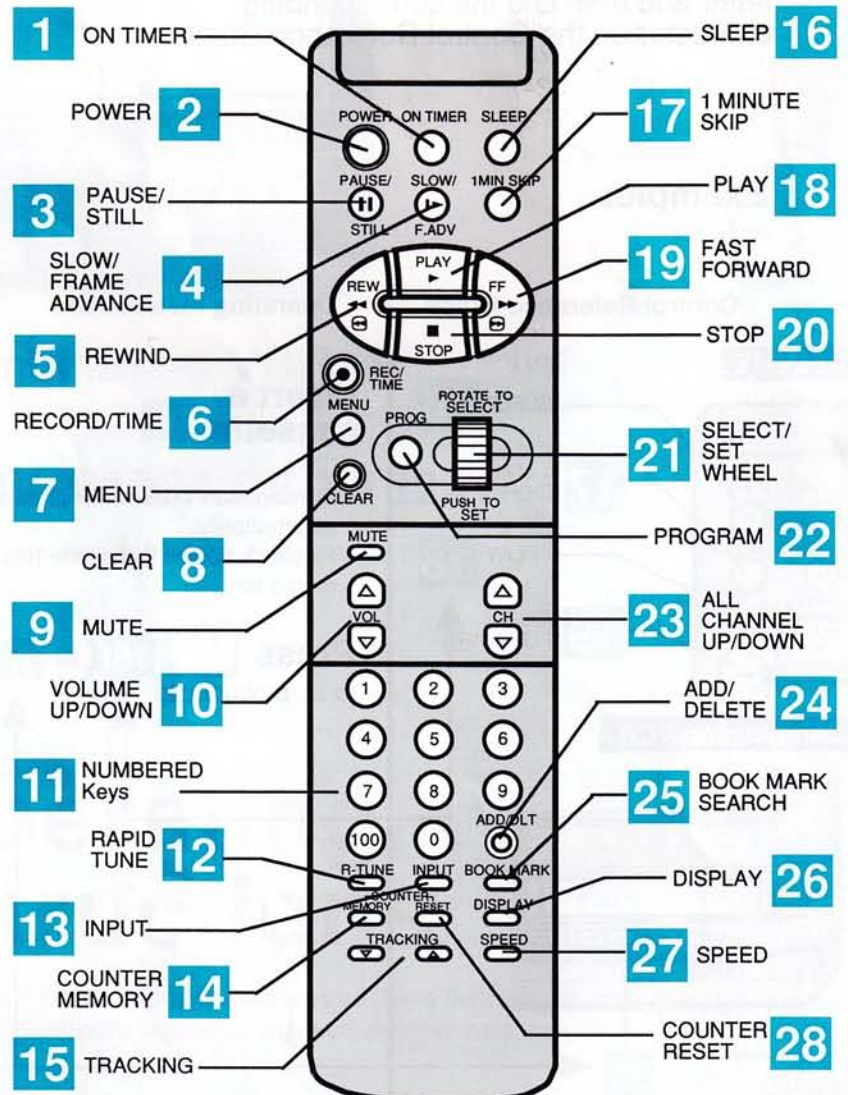
Be aware that important literature regarding operation and maintenance of this unit have been provided. Therefore, it should be read carefully in order to obtain the best performance.

Control Reference Guide

Combination VCR



Remote Control



Pana Omni

MODE

In

Before attempting to connect, opera
Spanish Quick Use Guide is inc

Things You Should Know

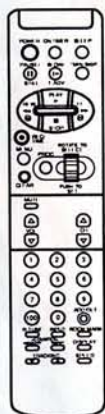
Congratulations on your purchase of one of the most sophisticated and reliable products on the market today. Used properly, we're sure it will bring you and your family years of enjoyment. Please take time to fill in the information at right. The serial number is on the tag located on the back of your Combination VCR. You'll want to keep this manual handy as your convenient Combination VCR information source.

Date of Purchase _____
Dealer Purchased From _____
Dealer Address _____
Dealer Phone No. _____
Model No. _____
Serial No. _____

Unpacking Your Combination VCR

The accessories shown below are provided to help you use or set up your Combination VCR. Optional accessories are also listed.

Accessories



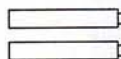
Remote Control
VSQS1370
(PV-M1324)
VSQS1372
(PV-M1324W)



300 ohm-75 ohm
Transformer
VSQS0974



Indoor Antenna
TSA700009



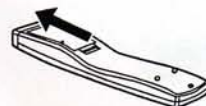
2 "AA"
Batteries

Optional Accessories

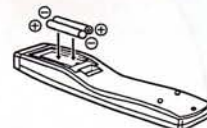
- 1/2" Video Cassette Tape

Load the batteries in the Remote Control

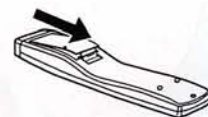
- 1** Press in the direction of the arrow and lift off the lid.



- 2** Install two batteries as indicated inside the Battery Compartment.



- 3** Replace the lid and snap into place.



Battery replacement caution

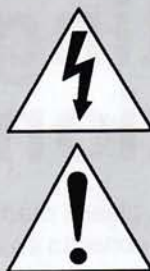
- Do not mix old and new batteries. (Also, never mix alkaline with manganese batteries.)

Safety Precautions

Warning: To prevent fire or shock hazard, do not expose this equipment to rain or moisture.

This video recorder, equipped with the HQ (High Quality) System, is compatible with existing VHS equipment. Only use those tapes with the **VHS** mark. It is recommended that only cassette tapes that have been tested and inspected for use in 2, 4, 6, and 8 hour VCR machines be used.

This television receiver provides display of television closed captioning in accordance with §15.119 of the FCC rules. This television receiver does not support color attributes of television closed captioning.



This symbol warns the user that uninsulated voltage within the unit may have sufficient magnitude to cause electric shock. Therefore, it is dangerous to make any kind of contact with any inside part of this unit.

This symbol alerts the user that important literature concerning the operation and maintenance of this unit have been included. Therefore, it should be read carefully in order to avoid any problems.

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Cassette and Care Information

Erase Protection (Record Tab)

Cassettes have a record tab to ensure that recordings are not accidentally erased.

Break off the tab with a screwdriver

to prevent accidental erasure.



Cover the hole with cellophane tape

to record again.



Maximum Record/Playback Time

Only use tapes with the **VHS** mark in this unit.

Tape Speed Position	Type of Video Cassette		
	T60	T120	T160
SP (Standard Play)	1 Hour	2 Hours	2 Hours 40 Minutes
LP (Long Play)	2 Hours	4 Hours	5 Hours 20 Minutes
SLP (Super Long Play)	3 Hours	6 Hours	8 Hours

Cleaning Care for Video Heads



**Clogged Video
Head Picture**

A Clogged Video Head

Your Combination VCR will not normally require head cleaning, however the heads may become clogged when playing an old or damaged tape. If the image on your screen resembles the image shown above during playback, the heads probably require cleaning.

To Clean the Head

It is recommended that head cleaning be performed by a qualified service technician. Please contact your nearest Panasonic Service Center. An alternate solution is to obtain a head cleaning cassette. Be sure to follow the cleaning instructions carefully. Excessive use of a cleaning cassette could shorten head life. Use this cassette only when symptoms occur.

Basic and Cable Connections

Outdoor Antenna Connection

Unhook the antenna from your previous TV or VCR and connect it to the back of the Combination VCR as shown in the diagram. If your antenna system has separate UHF and VHF lead-ins, you need a UHF/VHF Band Mixer (not supplied).

Indoor Antenna Connection

Insert the rod antenna (supplied) into the receptacle on the back of the Combination VCR. Then, connect the two wires to the 300 ohm-75 ohm transformer (supplied). Next, connect the transformer to the back of the Combination VCR as shown. Now, extend the antenna and adjust its length, direction and angle for the clearest picture.

Cable Connections

(A) Without a Converter/Descrambler Box

With this connection, you can: use your Combination VCR remote control to select channels for viewing and select unscrambled channels for timer recording. Scrambled channels may not be viewed or recorded with this connection.

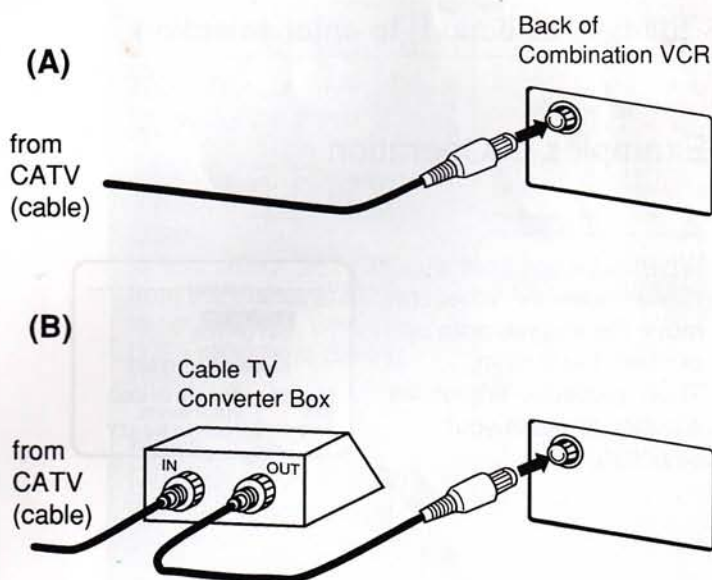
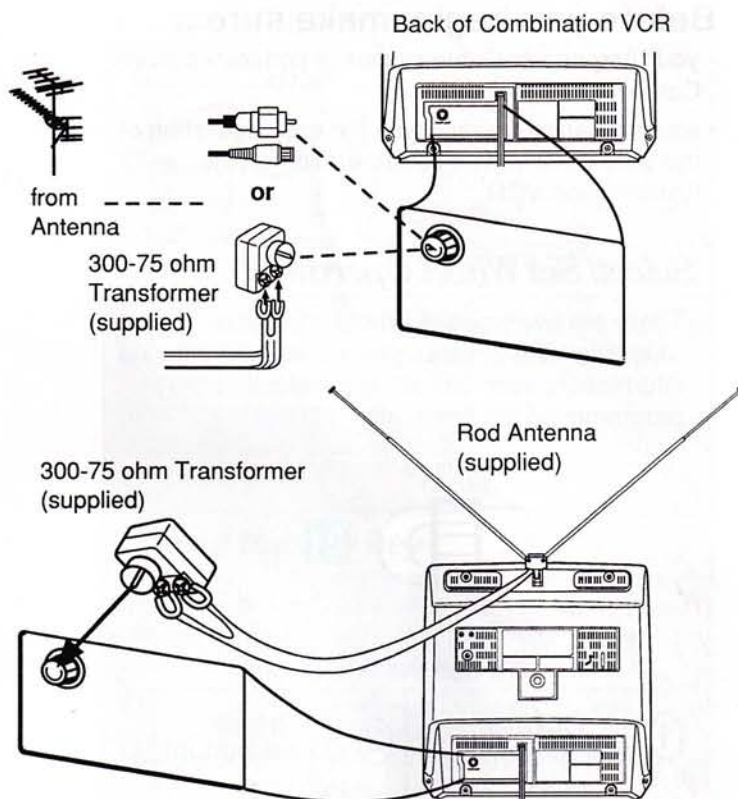
(B) With a Converter/Descrambler Box

With this connection, you may record and view any channel including scrambled channels. Please note, however that channel selection must be made at the cable company converter box. Channels cannot be changed using the Combination VCR remote control. Timer recording is limited to one channel at a time, and you can only view the channel you are recording.

To Watch and Record Scrambled/Unscrambled Channels

Set the Combination VCR channel selector to the output channel of the cable converter box (e.g. CH3).

Now, select channels to be viewed or recorded at the cable converter box.



FCC WARNING: Any unauthorized changes or modifications to this equipment would void the user's authority to operate.

Note to CATV System Installer

This reminder is provided to call the CATV (Cable TV) System Installers attention to Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

One Time Set Ups

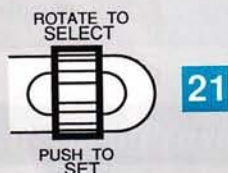
When the Combination VCR is first turned on, the channel auto set screen appears automatically followed by a prompter to set the clock.

Before you begin, make sure...

- your Antenna or Cable system is connected to the Combination VCR.
- you familiarize yourself with the easy operation of the Select/Set Wheel before turning on the Combination VCR.

Select/Set Wheel Operation

There are two types of Wheel operation. Selecting from a menu type screen and entering information, such as setting the clock, programming the timer, etc.



To Use the Wheel

① **Rotate**
(up or down)



to make selection

② **Press**
(like a button)



to enter selection

Examples of Operation

A

When selecting from a menu, rotate the Wheel to move the shaded area up or down the screen.

Then, press the Wheel like a button to make your selection.

-----MENU-----
SET UP TV
SET UP VCR
SET CLOCK
CHANNEL AUTO SET
SELECT : ROTATE WHEEL
SET : PUSH WHEEL
END : PUSH MENU KEY

B

When entering information such as, setting the clock, rotate the Wheel to change the numbers. Then, press the Wheel to enter and move on to the next item.

-----SET CLOCK-----
1 / - / - - - - -
DST:ON
SELECT MONTH
BY ROTATING WHEEL
PUSH WHEEL
TO END PUSH MENU KEY

- By repeatedly pressing the Wheel, you can skip over already set items as desired.

- **Place Channels in Memory**
- **Set the Clock**

1 Press  **23** (or **n**)
to start Channel Auto Set.

- After channels have been placed in memory, the following on-screen displays appear in sequence:

"CH AUTO SET COMPLETED"

The lowest numbered channel.

"PLEASE SET CLOCK BY PUSHING MENU KEY"

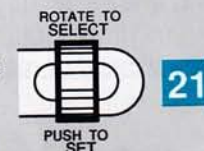
CHANNEL AUTO SET
CONNECT ANTENNA CABLE
THEN ...
PLEASE PUSH CH UP KEY

2 Press  **7**
within 10 seconds to display the SET CLOCK screen.

-----SET CLOCK-----
1 / - / - - - - -
DST:ON
SELECT MONTH
BY ROTATING WHEEL
PUSH WHEEL
TO END PUSH MENU KEY

- If **MENU** is not pressed within 10 seconds, the Combination VCR will exit this mode. In this case, please see the "Set or Reset the Clock" section on the next page.

Then, rotate and press



to select and enter the month, date, year, time, and D.S.T. (Daylight Saving Time).

- The day of the week automatically appears.
- "DST:ON" automatically adjusts for Daylight Saving Time. (See page 19 for details.)

To make corrections, press the Wheel or CLEAR button repeatedly to move back or forward to the desired item.

3 Press  **7** twice
to start the clock and exit this mode.

-----SET CLOCK-----
1 / 2 / 1995 THU 1:30P
DST:O
SET COMPLETED
TO CORRECT
PUSH WHEEL OR CLEAR KE
TO START PUSH MENU KEY

Replace Channels in Memory

Example, if you have cable installed, etc.

Press  **7** to select the menu.

Then, use  **21** to first, select CHANNEL AUTO SET from the menu and then to select your antenna system (TV or CATV).

Now, use  **21** to select and start AUTO SET.

```

-----MENU-----
SET UP TV
SET UP VCR
SET CLOCK
CHANNEL AUTO SET
SELECT : ROTATE WHEEL
SET      : PUSH WHEEL
END      : PUSH MENU KEY
    
```

```

--- CHANNEL AUTO SET ---
ANTENNA SYSTEM : CATV
AUTO SET
SELECT : ROTATE WHEEL
SET     : PUSH WHEEL
END     : PUSH MENU KEY
    
```

Rapid Tune

Press  **12** to display the last channel you were watching.

Previous Channel CH08 $\longleftrightarrow$ Present Channel CH10

- When selecting channels with the CH UP/DOWN key, the channels must be displayed for at least 4 seconds in order for the Combination VCR to recognize them as a new selection.

Using the 100 key

When selecting CATV channels 100 to 125 with the NUMBERED keys, first press the 100 key and then enter the remaining two digits. For example, for channels 125: Press NUMBERED keys 100-2-5.

Add or Delete a Channel

Press  **23** or use the NUMBERED keys to select a channel to add or delete.

The NUMBERED keys select all channels regardless of whether they have a signal or not.

The CH UP/ DOWN key selects only those channels which are in the Combination VCR's channel memory.

Then, press  **24** to add or delete it.

- To select a deleted channel, use the NUMBERED keys.

```

CHANNEL 08 DELETED
      ↑ or
      ↓
      ADDED
    
```

Set or Reset the Clock

Press  **7** to display the menu.

Then, use  **21** to first, select SET CLOCK from the menu, and then to set the date, time and D.S.T. (Daylight Saving Time).

Now, press  **7** twice to start the clock and exit this mode.

```

-----MENU-----
SET UP TV
SET UP VCR
SET CLOCK
CHANNEL AUTO SET
SELECT : ROTATE WHEEL
SET     : PUSH WHEEL
END     : PUSH MENU KEY
    
```

```

-----SET CLOCK-----
1 / 2 / 1995 THU 1:30PM
SELECT HOUR
BY ROTATING WHEEL
PUSH CLEAR : PUSH WHEEL
TO START PUSH MENU KEY
    
```

Helpful Notes

- This Combination VCR will accurately maintain its calendar up to Dec. 31, 2089, 11:59PM.
- Make entries within 5 minutes, or the Combination VCR exits the Set Clock screen.
- Normal TV or Cable channels are automatically selected and placed in memory depending on how your Combination VCR is hooked up.
- Channel Auto Set is not accessible when a recording is in progress. If it is a timer recording, set clock is also not accessible.

On Screen Displays (OSD)

Function & Channel Display

Whenever a function button is pressed (PLAY, FF, etc.) or the channel is changed, a 4 second OSD will appear first in large and then small characters.

FF 02

Menu Screen

MENU
Press  7
to display the menu.

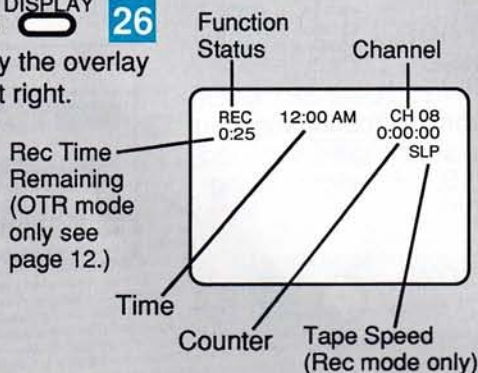
Then, use  21
to make your selection.
(See page 6 for details.)

- To get the most from each feature, it is recommended that you read the Operation Manual before attempting any operation.

-----MENU-----
SET UP TV
SET UP VCR
SET CLOCK
CHANNEL AUTO SET
SELECT : ROTATE WHEEL
SET : PUSH WHEEL
END : PUSH MENU KEY

VCR Status & Clock Display

Press  26
to display the overlay
shown at right.



Press  26 again
to remove this overlay.

Blank Tape Indication

If a blank section of tape is encountered in the play mode or the channel you select has no broadcast, the screen will change to a solid blue field. The screen will remain blue until a recorded signal is again detected or an active channel is selected.

Warning and Instruction Displays

These displays will alert you to a missed operation or provide further instructions.

If no active channels are found for CHANNEL MEMORY...

NO CH FOUND
PLEASE CHECK ANTENNA
CABLE CONNECTION THEN
PUSH CH UP KEY AGAIN

If you attempt to set or review a Timer Recording or set the On Timer and the Clock is not set...

PLEASE SET CLOCK
BEFORE PROGRAMMING

If a Timer Program was not completed before exiting the Program mode...

PROGRAM IS INCOMPLETE

If your cassette with record tab is not inserted before a Timer Recording is about to begin...

PLEASE PREPARE
FOR TIMER REC

If you press REC on the remote control or REC and PLAY on the Combination VCR, and a cassette is inserted with no record tab...

CHECK CASSETTE
RECORD TAB

If you press PLAY or REC on the remote control or REC and PLAY on the Combination VCR without a cassette inserted...

NO CASSETTE
PLEASE INSERT A CASSETTE

If you press STOP during a Timer Recording...

TO CANCEL TIMER REC
HOLD DOWN STOP KEY
FOR APPROX 3 SEC

Watching TV/ Closed Caption System

Before you begin, make sure ...

- connections are complete.
- Combination VCR is plugged in.

Watching TV Main Operation

Press  **2** (or **m**)
to turn the Combination VCR on.

Then, select a channel

using the CHANNEL UP/DOWN or NUMBERED keys.

Set the On Timer

The Combination VCR can be set to turn on automatically.

1 Press  **1** .
The ON TIMER display appears on-screen.

2 Use  **21**
to set the ON time.

Then, Use  **21**
to select either a channel number for TV mode or "PLAY" for VCR Playback mode when the Combination VCR comes on.

- Make sure a tape is inserted if VCR Playback mode is selected.

To make corrections, press the Wheel or CLEAR button repeatedly to move back or forward to the desired item.

3 Press  **1**
to set the ON TIMER function. "ON TIMER SET" will appear for about 5 seconds on-screen.

To cancel, press the ON TIMER button after the timer has been set. "ON TIMER END" will appear for about 5 seconds on-screen.

Set the Sleep Timer

The Combination VCR can be set to turn off automatically.

Press  **16** repeatedly.
"SLEEP TIMER 30, 60 or 90 (minutes)" will appear on-screen.

To cancel, press SLEEP button until "SLEEP TIMER 00" appears.

Closed Captioned Settings

This system not only allows the hearing impaired to enjoy selected programs, but also makes valuable information from your TV stations available to you.

Caption MODE: CAPTION

A narration of selected TV programs will be displayed on the screen. Check your TV program listings for CC (closed caption) broadcasts.

Caption MODE: OFF

Narration will not appear on the screen even if a closed caption broadcast is received.

Caption MODE: TEXT

The lower half of the screen will be blocked out. When the TV station broadcasts text such as program listings, special information, etc., it will appear in this space. This text block will remain on the screen until you remove it by changing the display in step 3 below.

Set the Closed Caption Mode

1 Press  **7**
to display the menu screen.

----- MENU -----
SET UP TV
SET UP VCR
SET CLOCK
CHANNEL AUTO SET
SELECT : ROTATE WHEEL
SET : PUSH WHEEL
END : PUSH MENU KEY

2 Use  **21**
to select SET UP TV from the menu, and then, select CAPTION.

----- CAPTION -----
MODE : OFF
CHANNEL : C1
SELECT : ROTATE WHEEL
SET : PUSH WHEEL
END : PUSH MENU KEY

3 Use  **21**
to select the Caption MODE as described above and then to select C1 or C2 as the caption channel.
Then, press MENU twice to exit this mode.

- The caption signal may be broadcast over one or both channels (C1, C2).
- Make entries within 5 minutes, or the Combination VCR exits the CAPTION screen.

Recording and Playing Back a Closed Caption/Text Program

Record: Your Combination VCR will automatically record the Closed Caption/Text signal. Just follow normal recording operation.

Playback: To display the Closed Caption narration or Text during playback, simply follow the steps above.

Adjusting the Picture and Sound

TV Picture Adjustment

1 Press **MENU** **7** to display the menu screen.

-----MENU-----
SET UP TV
 SET UP VCR
 SET CLOCK
 CHANNEL AUTO SET

SELECT : ROTATE WHEEL
 SET : PUSH WHEEL
 END : PUSH MENU KEY

2 Use  **21** to first, select SET UP TV and then, to select VIDEO ADJUST.

COLOR|.....
 TINT|.....
 BRIGHT|.....
 PICTURE|.....
 SHARPNESS|.....
 NORMAL

SELECT : ROTATE WHEEL
 SET : PUSH WHEEL
 END : PUSH MENU KEY

3 Use  **21** to select and display the desired video adjust overlay. (See description at right.)

4 Use  **21** to adjust and set the control.

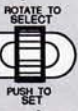
- Repeat steps 3 and 4 to adjust the picture as necessary.

5 Press **MENU** **7** twice to exit this mode.

- If no button is pressed within 5 minutes, the video adjust overlay disappears.
- Adjustment scale and setting indicator number are displayed to assist you.

To Reset Picture Controls to the Factory Setting

In step 3,

Use  **21** to select and set NORMAL so that all controls return to factory settings.

COLOR|.....
 TINT|.....
 BRIGHT|.....
 PICTURE|.....
 SHARPNESS|.....
NORMAL

SELECT : ROTATE WHEEL
 SET : PUSH WHEEL
 END : PUSH MENU KEY

Earphone

Connect an earphone (not supplied) to the Earphone jack .

Video Adjust Overlays

COLOR Control

To adjust the intensity of the colors.

32 COLOR
 |||||.....
 0

TINT Control

To adjust for the most natural fleshtones.

0 TINT
 - (R) (G) +
 0

BRIGHT Control

To adjust the brightness of the picture.

32 BRIGHT
 |||||.....
 0

PICTURE Control

To adjust the intensity of the picture by adjusting contrast and color level at the same time and in the proper balance.

63 PICTURE
 |||||.....
 0

SHARPNESS Control

To adjust the sharpness of the picture.

32 SHARPNESS
 |||||.....
 0

ADJUST : ROTATE WHEEL
 SET : PUSH WHEEL

Volume Adjustment

Press  **10** (or **0**) to adjust the volume level.

24 |||||.....

Audio Mute

Press **MUTE** **9** to instantly mute the sound.
 Press again, to restore the previous sound level.

Basic and Special Playback

Before you begin, make sure ...

- connections are complete.
- Combination VCR is plugged in.

Basic Playback Operation

1 Insert a cassette

- Combination VCR power comes on automatically.
- Playback begins if cassette has no record tab.

2 Press 18 (or) to start playback.

3 Press 5 (or) or 19 (or) to quickly locate a scene during playback.

- SLP mode tapes have a search speed of 27 times the normal speed.
- Some noise bars will appear during search.

4 Press 20 (or) to stop playback.

Then, press   on the Combination VCR to eject the cassette.

Special Effects During Playback

These features work best in SLP mode. Sound will be muted.

Double Speed Playback

Press   on the Combination VCR.

Press again to release.

Slow Motion Playback

Press  4

Press again to release.

Still Frame Picture

Press  3

Press again to release.

Frame Advance

Press  4 repeatedly or hold down

in Still mode, to advance the still picture one frame at a time.

Press STILL or PLAY to release.

Intelligent Search

If after a Rew or FF search is done the search is re-started within 5 seconds, the search speed is slow down (SLP mode: 9 times) for a duration of 8 sec. Then normal search speed resumes.

Features for a Quality Picture

Digital Auto Tracking

This feature continuously analyzes the signal and adjusts for optimum picture quality.

Manual Tracking Control

Use during Playback, Slow Motion, and Double Speed Playback to reduce picture noise.

Press   15

until the picture clears up.

To return to Auto tracking, eject and re-insert the tape.

Basic Recording

Before you begin, make sure ...

- connections are complete.
- Combination VCR is plugged in.

Basic Recording Operation

1 Insert a cassette

with record tab.

- Combination VCR power comes on automatically.

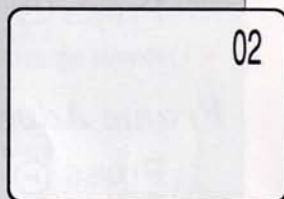
2 Press 13

until channel number appears on-screen.

- To record from an outside source, press INPUT so that "LINE" appears on-screen.

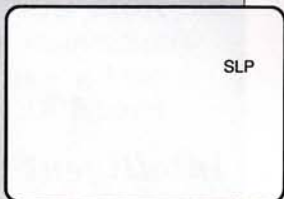
3 Press 23

to select a channel to be recorded.



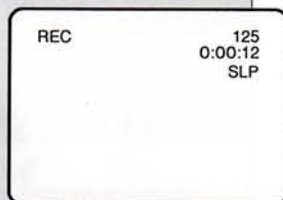
4 Press 27

until the desired speed appears on-screen.



5 Press 6 (or and)

to start recording.



- This overlay appears for 8 seconds. To set the recording length, see the One Touch Recording section at right.

6 Press 20 (or)

to stop recording.

One Touch Recording (OTR)

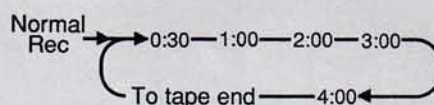
You can set up the Combination VCR to turn itself off at a preset time making it a one touch timer recording.

In step 5,

Continue to press 6 (or)

to set the recording length.

Each press will change the time as shown in the diagram below.

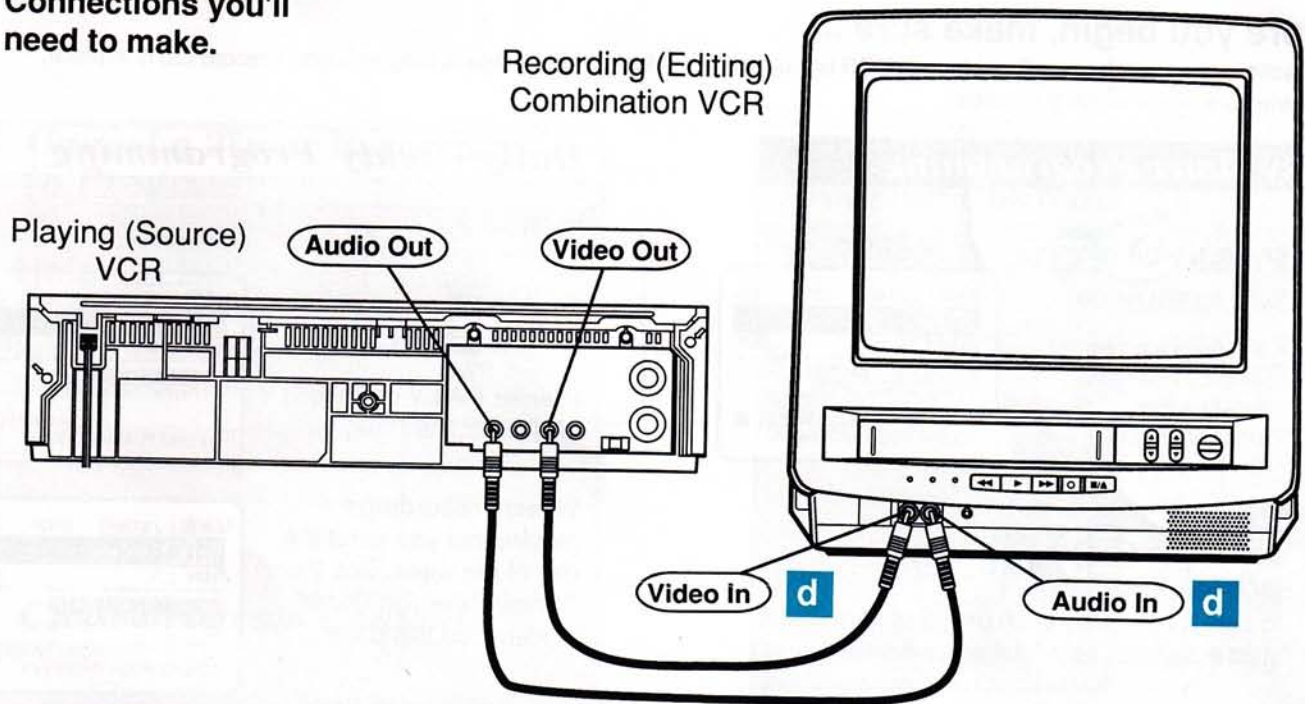


Helpful Notes

- While it is possible to change the tape speed when you are recording, there will be some distortion on the tape where the change occurred.
- Press PAUSE to pause normal recordings in progress. One Touch Recordings can not go into Pause mode.
- After the Combination VCR has been in Pause mode for 5 minutes, it will stop automatically to protect the tape and video head.

Copying Your Tapes

Connections you'll need to make.



Copying Main Operation

1 Insert a pre-recorded tape into the Playing (source) VCR.

Then, insert a blank tape with record tab into the Recording (editing) Combination VCR.

2 Press INPUT on the Recording Combination VCR until "LINE" appears on-screen.

3 Press PLAY on the playing VCR.

Then, press PAUSE/STILL when the tape reaches the point you want to start copying.

4 Press REC and PLAY at the same time on the recording Combination VCR.

Then, press PAUSE/STILL immediately.

5 Press PAUSE/STILL on both units (at the same time), to begin copying.

Then, press STOP on both units to stop copying.

Caution:

Unauthorized exchanging and/or copying of copyrighted recordings may be copyright infringement.

Helpful Note

- By using the **PAUSE/STILL** button (on the remote control of the Recording unit) while copying is in progress, you can edit out unwanted parts of the original recording.

Timer Recording

- Record a program up to one month away.
- Record daily, Monday through Friday.
- Record weekly at the same time.

Before you begin, make sure ...

- connections are complete.
- Combination VCR is plugged in.
- clock is set.
- tape is long enough.
- record tab is in place.
- all entries are made within 5 minutes.

Easy Timer Programming

1 Press  **22** for program mode.

- If a program has already been set, select a blank program number with the Wheel.

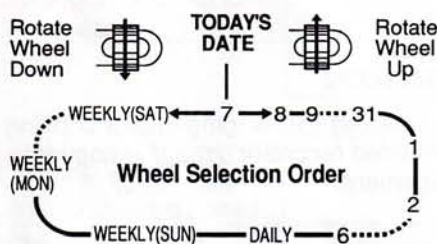
TV Screen

DATE / START STOP CH
7 FRI ---:-- ---:--
TODAY \ SLP
SELECT START DATE
BY ROTATING WHEEL
:PUSH WHEEL
TO END PUSH PROG KEY

2 Rotate and press  **21**

to select and enter each program item (date, start time, etc.) as it flashes on-screen.

Example: Setting the Date



To make corrections, press the Wheel or CLEAR button repeatedly to move back or forward to the desired item.

3 Press  **22** to finish the program.

P DT START STOP CH SPD
1 8 9:00A 10:00A 08 SP
2 ---:-- ---:--
3 ---:-- ---:--
4 ---:-- ---:--
SELECT 1-8 : ROTATE WHEEL
ENTER : PUSH WHEEL
CANCEL : PUSH CLEAR KEY
END : PUSH PROG KEY

Then, set the next program by repeating steps 2 and 3.

Or press  **22** to exit the programming mode and set the Timer.

- The PROGRAM TIMER indicator lights on the front panel.

Two minutes before the Timer Recording starts, "TIMER REC WILL START SOON" will appear on-screen. If "PLEASE PREPARE FOR TIMER REC" appears and/or the PROGRAM TIMER indicator flashes, check that a cassette with record tab is loaded and the Combination VCR is in Stop mode.

Daily/Weekly Programming

In step 2,

Use  **21**

to enter DAILY or WEEKLY in place of the Date.

DATE / START STOP CH
DAILY ---:-- ---:--
MON-FRI SLP
SELECT START DATE
BY ROTATING WHEEL
:PUSH WHEEL
TO END PUSH PROG KEY

Weekly recordings require that you enter the day of the week. See the "Wheel Selection Order" in step 2 on this page.

DATE / START STOP CH
WEEKLY ---:-- ---:--
SUN \ SLP
SELECT START DATE
BY ROTATING WHEEL
:PUSH WHEEL
TO END PUSH PROG KEY

Then, continue with programming.

Cancel a Timer Recording in Progress

Hold  **20**
(or ) down
for a few seconds to cancel
the Timer Recording.

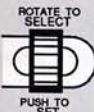
- Any future daily or weekly recordings will be performed as programmed.

TO CANCEL TIMER REC
HOLD DOWN STOP KEY
FOR APPROX 3 SEC

Clear Program Contents

(Recording is not in progress.)

Press  **22**
to display all programs.

Next, rotate  **21**
to select the desired
program number.

Then, press  **8**
to clear the program.

Now, press  **22**
to return to normal TV.

P	DT	START	STOP	CH	SPD
1	DAY	9:00A	10:00A	08	SP
2	8	10:00P	12:00P	125	SLP
3	10	8:00P	9:00P	10	SP
4	SU	9:00P	10:00P	L	SLP

SELECT 1-8 : ROTATE WHEEL
ENTER : PUSH WHEEL
CANCEL : PUSH CLEAR KEY
END : PUSH PROG KEY

P	DT	START	STOP	CH	SPD
1	DAY	9:00A	10:00A	08	SP
2	8	10:00P	12:00P	125	SLP
3	10	8:00P	9:00P	10	SP
4	SU	9:00P	10:00P	L	SLP

SELECT 1-8 : ROTATE WHEEL
ENTER : PUSH WHEEL
CANCEL : PUSH CLEAR KEY
END : PUSH PROG KEY

Review and/or Replace Program Contents

(Recording is not in progress.)

Press  **22**
to display all currently
set programs.

Then, use  **21**
to select and enter the
desired program.

Now press  **22** twice
to return to normal TV.

P	DT	START	STOP	CH	SPD
1	DAY	9:00A	10:00A	08	SP
2	8	10:00P	12:00P	125	SLP
3	10	8:00P	9:00P	10	SP
4	SU	9:00P	10:00P	L	SLP

SELECT 1-8 : ROTATE WHEEL
ENTER : PUSH WHEEL
CANCEL : PUSH CLEAR KEY
END : PUSH PROG KEY

DATE/	START	STOP	CH
8 SAT	10:00P	12:00P	125
MON-FRI			SLP

SELECT START DATE
BY ROTATING WHEEL

PUSH CLEAR : PUSH WHEEL
TO END PUSH PROG KEY

Helpful Notes

- Another way to review program contents** is to press the PROGRAM button while a timer recording is in progress. Program in progress is flashing.
- Check your times carefully** to avoid overlapping.
- If the record tab is missing** two minutes before the Timer Recording starts, "PLEASE PREPARE FOR TIMER REC" appears on-screen if turned on, the tape ejects and the PROGRAM TIMER indicator flashes.
- If there is a power interruption** of more than about one minute, the recording cannot be performed or continue.
- If "PROGRAM IS INCOMPLETE" appears**, check all entries carefully and make any corrections. Then, continue with step 3.
- When recording from an external source**, rotate the wheel until "L" appears instead of the Channel.

Tape Operation

Repeat Play

You can set your Combination VCR up to play a recording over and over.

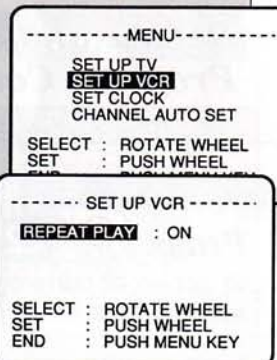
1 Press  **7** to display the menu.

2 Use  **21** to first, select SET UP VCR from the menu; and then, press to select REPEAT PLAY : ON.

Press  **7** twice to exit this screen.

- When REPEAT PLAY : "ON" is selected, the Combination VCR will play to the end of a tape, or until it reaches a blank portion 30 seconds or more. (Erased portions of tape are not considered blank.) Then, the Combination VCR will automatically rewind the tape and play it again and again until you cancel repeat play. REPEAT indicator lights on the front panel.
- All function buttons (REW, FF, etc.) are operational during Repeat Play.

3 Repeat steps 1 and 2 and select REPEAT PLAY : "OFF" to cancel repeat play.



Time Counter Control

You can keep track and/or return to a particular point on the tape.

1 Press  **26** to select the time counter overlay.

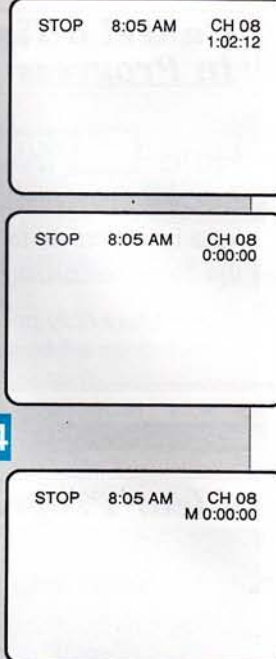
2 Press  **28** to reset the time counter.

3 Press  **14** to select the memory function.

- You may select memory during any operation with the time counter overlay showing.

4 Press  **5** or  **19** (in Stop mode) to start the memory function.

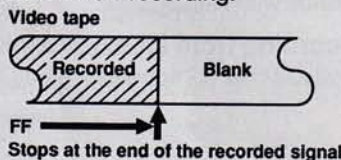
- The tape will stop automatically wherever "M0:00:00" was set.
- You may remove the time counter overlay by pressing the DISPLAY button again.



Book Mark Search

Press  **25** in Play, FF or Stop mode. The Combination VCR will go into FF mode and then stop automatically around the end of your recording.

- If the BOOK MARK SEARCH button is pressed where no signal is recorded, the Combination VCR will go into rewind mode and then stop automatically around the end of your recording.
- Playback a few seconds of tape to find the exact location to start a new recording.



BOOK MARK SEARCH

One Minute Skip

Press  **17** in Play mode. The Combination VCR will go into FF search mode and skip over 60 seconds of recorded time. Then, normal playback will resume.

Auto Operation Functions

Auto Playback

When a tape is inserted, the power comes on. If the record tab* is removed, playback begins.

Auto Rewind

After a tape reaches its end during playback, fast forward or manual record, the Combination VCR will rewind it and go into Stop mode.

Playback Auto Eject

After a tape without a record tab* is played to its end, the Combination VCR will rewind and then eject the tape.

Rec Auto Stop

After a tape reaches its end during normal recording, the Combination VCR will rewind and then eject the tape.

Eject Cassette

A cassette may be ejected with power on or off.

* For record tab information, see page 4.

Product Information

Indicators on the Front Panel

ON TIMER Indicator

Lights when the On Timer is set.

REPEAT Indicator

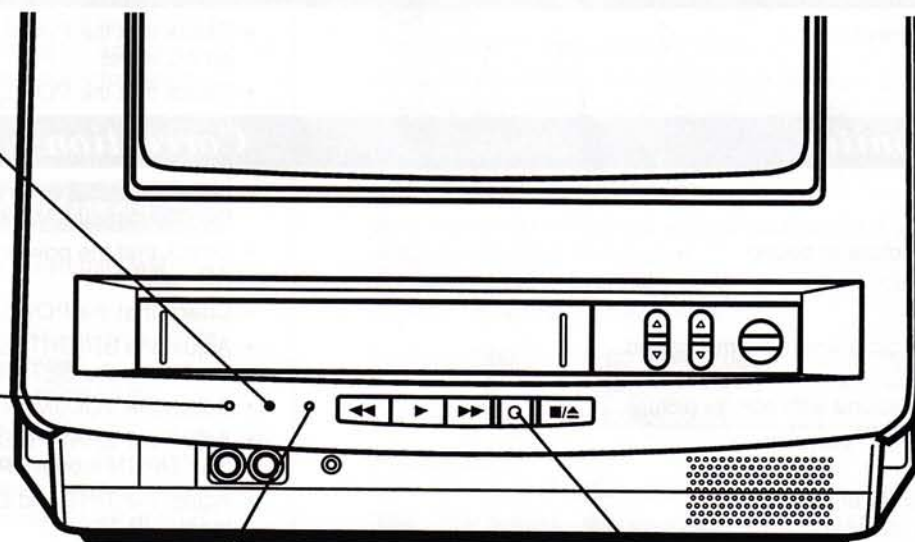
Lights when "REPEAT PLAY: ON" is selected and playback is in progress.

PROGRAM TIMER Indicator

Lights when the Combination VCR is set for Timer Recording. It flashes when a Timer Recording has been set, but a tape has not been inserted or the clock is not set.

RECORD Indicator

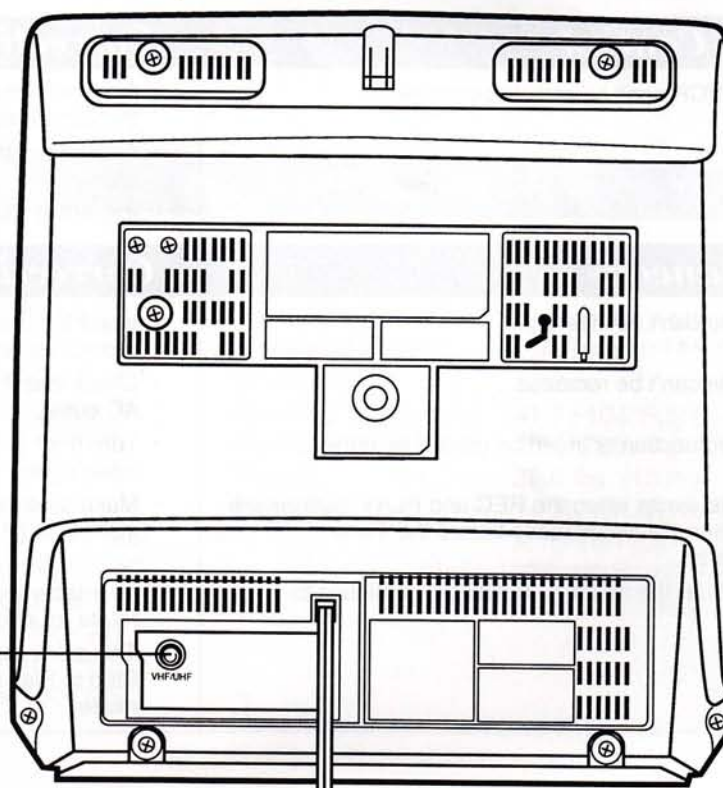
This indicator lights during recording.



Rear View of the Combination VCR

VHF/UHF Antenna Input Terminal

In from your Antenna or Cable.



Before Requesting Service

Check the following points once again if you are having some trouble with your Combination VCR.

Power	Correction
No power...	• Check that the Power Plug is completely connected to an AC outlet. • Check that the POWER button is set to on.
Monitor	Correction
No picture or sound...	• Make sure your antenna or cable system is connected to the Combination VCR. (P.5) • Check that the power plug is completely connected to an AC outlet. • Check that the POWER button is set to on. • Adjust the BRIGHT, SHARPNESS, and PICTURE controls in the SET UP TV menu. (P.10) • Adjust the VOLUME control. (P.10) • Adjust the SHARPNESS and PICTURE controls in the SET UP TV menu. (P.10) • Adjust the TINT and COLOR controls in the SET UP TV menu. (P.10) • Install a directional antenna. • Make sure that the channel being received is in the Combination VCRs memory. (P.6)
Poor picture with normal sound...	
Poor sound with normal picture...	
Poor TV reception...	
No color or poor color...	
Ghosts (Multiple images)...	
TV programs can't be watched...	
VCR	Correction
TV program can't be recorded...	• Make sure your antenna or cable system is connected to the Combination VCR. (P.5) • Make sure that the record tab on the back of the cassette is still intact. (P.4) • Set the recording start/stop time correctly. (P.14-15) • Timer recording may not be performed or continued if a power interruption of more than 1 minutes occurs before or during Timer Recording, even if power resumes thereafter. • Adjust the TRACKING control slowly in either direction. (P.11)
Timer recording can't be performed...	
There's no playback picture or the playback picture is noisy or contains streaks...	
Remote Control	Correction
Combination VCR can't be remote controlled...	• Aim the Remote Control directly at the remote sensor on the Combination VCR. (Refer to Control Reference Guide.) • Avoid all obstacles which may interfere with the signal path. • Inspect or replace the batteries. (P.2)
Miscellaneous	Correction
Video cassette can't be inserted...	• Insert the cassette with the window side up and the record tab facing you. • Check that the power plug is completely connected to an AC outlet. • Turn the POWER off and then on, and try ejecting or inserting the tape again. • Make sure the record tab on the back of the cassette is still intact. (P.4) • To enable the quick play mechanism, the cylinder will rotate for about 10 minutes. • The quick play mechanism reduces response time from Stop to Play mode and from Play to Rewind search mode.
Video cassette can't be removed...	
Eject does not function or insertion cannot be done...	
Video cassette ejects when the REC and PLAY buttons are pressed or when the two minutes before the Timer Recording starts...	
In the stop mode, the motor (CYLINDER) continues to rotate...	

Helpful Notes on Operations

Cable Connections

- With cable connections, numbers selected to receive specific channels may differ from those for antenna connections. Refer to your cable service information.

Special Playback Features

- During search playback, horizontal noise bars will appear on the TV screen.
- After the Combination VCR is in the Still or Slow mode for 3 minutes, it will go into the Stop mode automatically to protect the tape and video head.
- In search, still or slow motion playback, some amount of noise may appear for tapes recorded in SLP mode. The picture may be completely snowy in search, still, or slow motion mode for tapes recorded in SP and LP speed.

Timer Recording

- Timer recording may not be performed or continue if a power interruption of more than about 1 minute occurs before or during timer recording, even if power resumes thereafter.
- If the start times of 2 preset programs overlap, the preset time of the lower numbered program will have priority.
- If the preset time for a timer recording comes up during a normal recording or One Touch Recording, the timer recording will not be performed.

D.S.T (Daylight Saving Time)

Spring

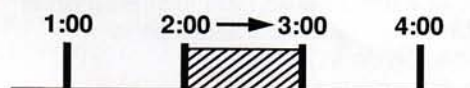
First Sunday in April (minus 1 hour)

Because the clock automatically changes from 2AM to 3AM, keep in mind that any part of a scheduled timer recording which falls between these two times will not be performed.

Examples:

A recording set to begin at 1:30AM and end at 2:30 will actually record for 30 minutes.

A recording set to begin at 1:30AM and end at 3:30 will actually record for 1 hour, and so on.



Autumn

Last Sunday in October (plus 1 hour)

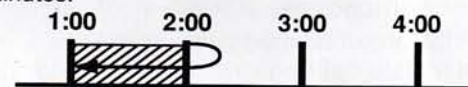
The clock automatically changes from 2:00AM back to 1:00AM and therefore affects your recording length.

Examples:

A recording set from 12:50AM to 2:30, will actually record for 2 hours and 40 minutes.

A recording set from 1:00AM to 1:30, will actually record for 30 minutes. (Not affected.)

A recording set from 1:30AM to 2:30, will actually record from 1:30 to 2:00 and then go into the Stop mode until it becomes 1:30 again. The recording will then continue until 2:30 for a total recording time of 1 hour and 30 minutes.



- Even if a recording of a daily or weekly series is affected, other recordings of the series will be performed as programmed.

Product Specifications

Display

Picture Tube: 13 inch measured diagonal 90° deflection Picture Tube

VCR

Video Recording System: 2 rotary heads helical scanning system

Audio Track: 1 track

Tuner:

Broadcast Channels: VHF 2~13, UHF 14~69

CATV Channels: Midband A through I (14~22)
Superband J through W (23~36)
Hyperband AA~EEE (37~64)
Lowband A-5~A-1 (95~99)
Special CATV channel 5A (01)
Ultraband 65~94, 100~125

General

Power Source: 120V AC, 60 Hz

Power Consumption: Approx. 69 watts

Television System: EIA Standard NTSC color

Speaker: 1 piece

Operating Temperature: 41°F~104°F(5°C~40°C)

Operating Humidity: 10%~75%

Weight: 28.6 lbs. (13 Kg)

Dimensions: 14-13/16" (W) X 15-7/8" (H)
X 15-1/8" (D)
376 (W) X 403 (H)
X 384 (D) mm

Note: Designs and specifications are subject to change without notice.

Spanish Quick Use Guide/Guía para rápida consulta

Conexión de la antena externa

Desenganche la antena del televisor o registrador de video que tuviera anteriormente y conéctela a la parte trasera del Registrador de Video de Cobinación, como se muestra en el diagrama. Si el sistema de su antena tiene conductores UHF y VHF separados, usted necesita un Mezclador de Banda UHF/VHF (no viene con el equipo).

Conección de la Antena Interior

Inserte la antena varilla (suministrada) en el receptáculo de la parte trasera de la combinación de VCR/TV. Luego, conecte los dos alambres al transformador de 300 ohmios-75 ohmios (suministrado). Entonces, conecte el transformador a la parte trasera de la combinación de VCR/TV como se muestra. Ahora, despliegue la antena y ajuste su longitud, dirección y ángulo para la más clara imagen.

Conexiones de TV por cable

(A) Sin la caja convertidora/decodificadora

Con esta conexión usted podrá utilizar su control remoto del Registrador de combinación de VCR/TV para seleccionar los canales que desee ver y seleccionar canales no codificados para su grabación programada. Esta conexión no permite ver ni grabar canales codificados.

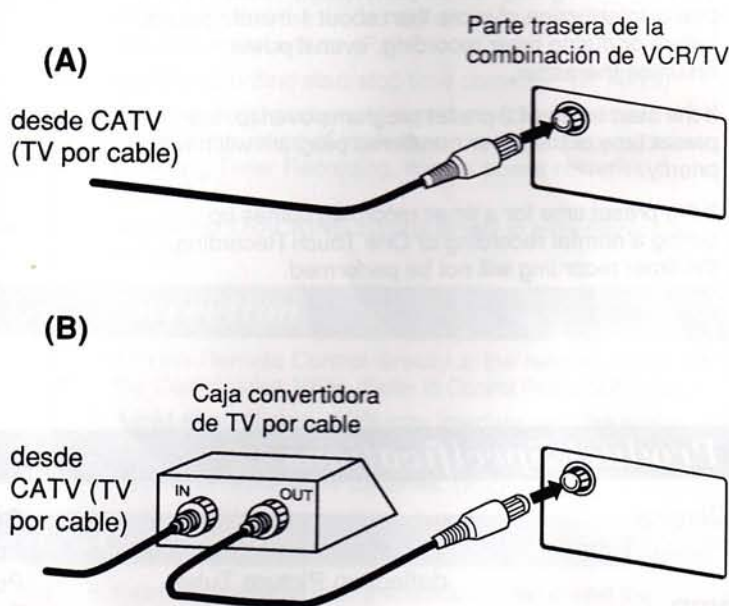
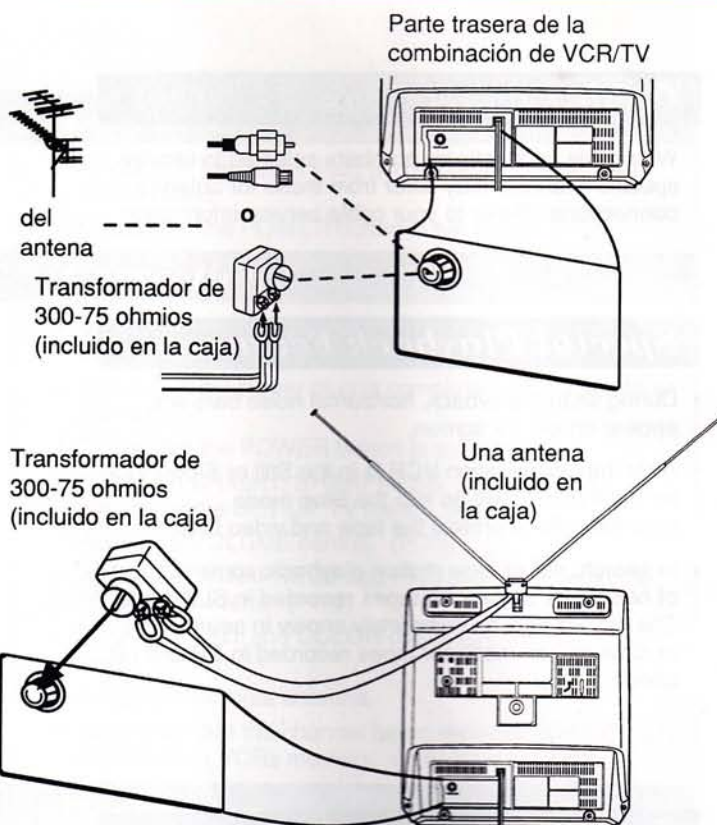
(B) Con una caja convertidora/decodificadora

Con esta conexión, usted podrá grabar y ver cualquier canal, incluyendo los canales codificados. observe, sin embargo, que la selección de canales se debe efectuar en la caja convertidora de TV por cable que suministra esta empresa. No se puede cambiar de canal utilizando el control remoto del Registrador de combinación de VCR/TV. La grabación programada está limitada a un canal cada vez, y sólo se podrá ver el canal que esté grabando.

Para ver y grabar un canales codificado/no codificado

Coloque el selector de canal del Registrador de combinación de VCR/TV en el canal de salida de la caja convertidora de televisión por cable (por ejemplo el canal 3).

Después, seleccione en la caja convertidora de TV por cable los canales que se quieran ver o grabar.



• Memorizar canales

• Ajuste del reloj

1 Oprimir  **23** (o **n**) para empezar la programación automática de canales.

- Luego de memorizar los canales, aparece las siguientes indicaciones:

"CH AUTO SET COMPLETED"

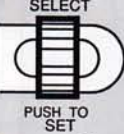
El canal con el número menor.

"PLEASE SET CLOCK BY PUSHING MENU KEY"

CHANNEL AUTO SET
CONNECT ANTENNA CABLE
THEN ...
PLEASE PUSH CH UP KEY

2 Oprimir  **7** antes de 10 segundos para que aparezca la pantalla de fijación del reloj.

- Si no se oprime el botón del MENU durante 10 segundos, la combinación de VCR/TV sale de este modo. En este caso, por favor consulte la sección de fijación o cambio de la hora de esta página.

Luego, girar y oprimir  **21** para seleccionar y fijar el mes, la fecha, la hora y D.S.T. (hora veraniega).

- El día de la semana aparece automáticamente.
- "DST: ON" ajusta automáticamente la hora veraniega.
(Para más detalles consulte la página 19.)

Para hacer correcciones, oprimir la rueda o el botón CLEAR repetidamente para retroceder al paso que desea.

3 Ahora, oprimir  **7** dos veces para hacer funcionar el reloj y salir de este modo.

-----SET CLOCK-----
1/ 2/1995 THU 1:30PM
DST:ON
SET COMPLETED
TO CORRECT
PUSH WHEEL OR CLEAR KEY
TO START PUSH MENU KEY

Fijación o cambio de la hora

Oprimir  **7** para que aparezca la pantalla del menú.

Luego, utilice  **21** para elegir la pantalla de ajustamiento del reloj primeramente y luego fijar la fecha, la hora y D.S.T. (hora veraniega).

Ahora, oprimir  **7** dos veces para hacer funcionar el reloj y salir de este modo.

-----MENU-----
SET UP TV
SET UP VCR
SET CLOCK
CHANNEL AUTO SET
SELECT : ROTATE WHEEL
SET : PUSH WHEEL
END : PUSH MENU KEY

-----SET CLOCK-----
1/ 2/1995 THU 1:30PM
DST:ON
SELECT HOUR
BY ROTATING WHEEL
PUSH CLEAR: PUSH WHEEL
TO START PUSH MENU KEY

Operación básica para la reproducción

1 Introducir una cinta **p**

- La combinación de VCR/TV se enciende automáticamente.
Comienza a reproducir si la cinta no tiene la lengüeta para evitar borrado.

2 Oprimir  **18** (o **h**) para comenzar a reproducir.

3 Oprimir  **5** (o **g**)
o  **19** (o **i**)

para localizar rápidamente una escena durante la reproducción.

- La velocidad de búsqueda en el modo SLP es a 27 veces más rápida que la velocidad normal.
- Durante la búsqueda aparece alguna barras du ruido.

4 Oprimir  **20** (o **l**) para parar la reproducción.

Luego, oprimir  **1** en la combinación de VCR/TV para expulsar la cinta.

Operaciones básicas para la grabación

1 Introducir una cinta **p** con la lengüeta.

- La combinación de VCR/TV se enciende automáticamente.

2 Oprimir **INPUT** **13** hasta que el número de canal aparezca en la pantalla.

- Paragrabar desde una fuente externa, oprimir **INPUT** de forma que "LINE" aparezca en la pantalla.

3 Oprimir **CH** **23** para seleccionar el canal que desea grabar.

4 Oprimir **SPEED** **27** hasta que aparezca la velocidad de cinta que desea.

5 Oprimir **REC/TIME** **6** (o **h** y **j**) para empezar a grabar.

6 Oprimir **STOP** **20** (o **l**) para parar la grabación.

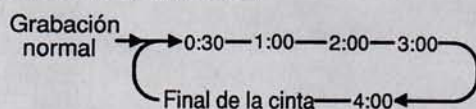
Grabación de un toque (OTR)

Ud. podrá fijar la combinación de VCR/TV para parar automáticamente la grabación a una hora programada con la grabación de un toque.

En el paso 5,

Oprimir sucesivamente **REC/TIME** **6** (o **j**)

para fijar el tiempo de la grabación. Cada presión cambiará el tiempo como demuestra al siguiente.



Notas útiles

- Aunque sea posible cambiar la velocidad de la cinta durante la grabación, habrá algunas distorsiones en la cinta en el lugar donde se hizo el cambio.
- Oprimir **PAUSE** para hacer una pausa en la grabación normal mientras se efectúa la grabación. Grabación Un Toque no puede pasar a modo Pausa.
- Cuando se deja el aparato en pausa durante 5 minutos el aparato se parará automáticamente para proteger la cinta y las cabezas de video.

Programación fácil para la grabación con temporizador

1 Oprimir **PROG** **22** para el modo de programación.

- Si ya existe una programación, elegir un número sin programación con la rueda.



2 Girar y oprimir **21**

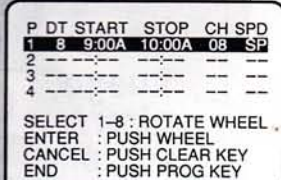
para elegir y fijar cada paso de la programación (fecha, hora de inicio, etc.) como aparece en la pantalla.

Ejemplo: Fijando la fecha



Para hacer correcciones, oprimir la rueda o el botón **CLEAR** repetidamente para retroceder al paso que desea.

3 Oprimir **PROG** **22** para terminar la programación.



Luego, fijar el siguiente programa

repetiendo los pasos 2 y 3.

O oprimir **PROG** **22**

para salir del modo de programación y conectar el temporizador.

- La indicación **PROGRAM TIMER** aparece en la panel delantero.

Dos minutos antes de que se inicie la grabación programada, en la pantalla aparecerá el mensaje "TIMER REC WILL START SOON". Si apareciera el mensaje "PLEASE PREPARE FOR TIMER REC" y/o parpadeara el indicador del Temporizador del programa (PROGRAM TIMER), compruebe que haya cargada una cinta de video con lengüetas de grabación, y que el Registrador de combinación de VCR/TV se encuentre en modo Parada.

Como hacer funcionar la television

Oprimir 2

para encender el Registrador de combinación de VCR/TV

Después, seleccione un canal utilice las teclas CHANNEL UP/DOWN o teclas numéricas.

Programar el temporizador de Encendido (On Timer)

El Registrador de combinación de VCR/TV se puede programar para que se encienda automáticamente.

1 Oprimir  1 . En la pantalla aparece Temporizador de Encendido (ON TIMER).

2 Utilice  21 para fijar la hora ON.

Luego, utilice  21 para seleccionar un número de canal para el modo TV, o "PLAY" (reproducción) para el modo de Reproducción VCR cuando la Combinación VCR aparezca.

• Asegúrese de insertar una cassette para el modo de Reproducción VCR.

Para hacer correcciones, oprimir el botón Rueda o CLEAR repetidamente, para desplazar hacia delante o hacia atrás la indicación que desee.

3 Oprimir  1 para programar la función Temporizador de Encendido (ON TIMER). En la pantalla aparecerá "ON TIMER SET" durante aproximadamente 5 segundos.

Para cancelar la operación, oprimir el botón del ON TIMER después de haber programado el temporizador. En la pantalla aparecerá "ON TIMER END" durante aproximadamente 5 segundos.

Programar el Temporizador de apagado (Sleep Timer)

El Registrador de combinación de VCR/TV se puede programar para que se apague automáticamente.

Oprimir  16 repetidamente. En la pantalla aparecerá "SLEEP TIMER 30, 60 ó 90 (minutos)".

Para cancelar la operación, oprimir el botón SLEEP hasta que en la pantalla aparezca "SLEEP TIMER 00".

Adjustes de los Subtítulos

Este sistema no sólo permite a las personas con problemas auditivos disfrutar de programas que hayan seleccionado mediante la lectura de los subtítulos, sino que también pone a su disposición información valiosa respecto a las emisoras de TV.

MODO Subtítulos: CAPTION

En la pantalla aparecerá una lista de los programas de TV seleccionados. Revise en sus listas de programas de TV para hallar cuáles tienen retransmisiones con subtítulos (CC – closed caption).

MODO Subtítulos: OFF (desactivado)

Narration will not appear on the screen even if a closed caption broadcast is received.

MODO Subtítulos: TEXT

La mitad de la pantalla hacia abajo quedará bloqueada. Cuando una emisora de TV retransmita textos como por ejemplo listas de programas, información especial, etc, dichos textos aparecerán en ese espacio reservado. Este bloque de texto permanecerá en la pantalla hasta que usted lo elimine, al cambiar la exhibición en el paso 3 que demuestro al siguiente.

Programar el Mode Subtítulos

1 Oprimir  7 para visualizar la pantalla donde aparece el menú.

2 Utilice  21 para seleccionar SET UP TV en el menú, y después, selecciones CAPTION.

3 Utilice  21 para seleccionar el MODO de Títulos como se describe arriba, y luego para seleccionar C1 o C2 como canal de títulos.

- Los subtítulos se pueden retransmitir en uno o en los dos canales (C1, C2).
- Introduzca datos antes de 5 minutos, porque si no el Registrador de combinación de VCR/TV saldrá de la pantalla de Subtítulos (CAPTION).

-----MENU-----
SET UP TV
SET UP VCR
SET CLOCK
CHANNEL AUTO SET
SELECT : ROTATE WHEEL
SET : PUSH WHEEL
END : PUSH MENU KEY

-----CAPTION-----
MODE : OFF
CHANNEL : C1
SELECT : ROTATE WHEEL
SET : PUSH WHEEL
END : PUSH MENU KEY

Grabación y Reproducción de un Programa de Texto/Subtítulos

Grabación: Su Registrador de combinación de VCR/TV grabará automáticamente la señal de Texto/Subtítulos. Siga simplemente la operación normal de grabación.

Reproducción: Para visualizar la narración de los subtítulos o del texto durante la reproducción, siga simplemente los pasos que se describen anteriormente.

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